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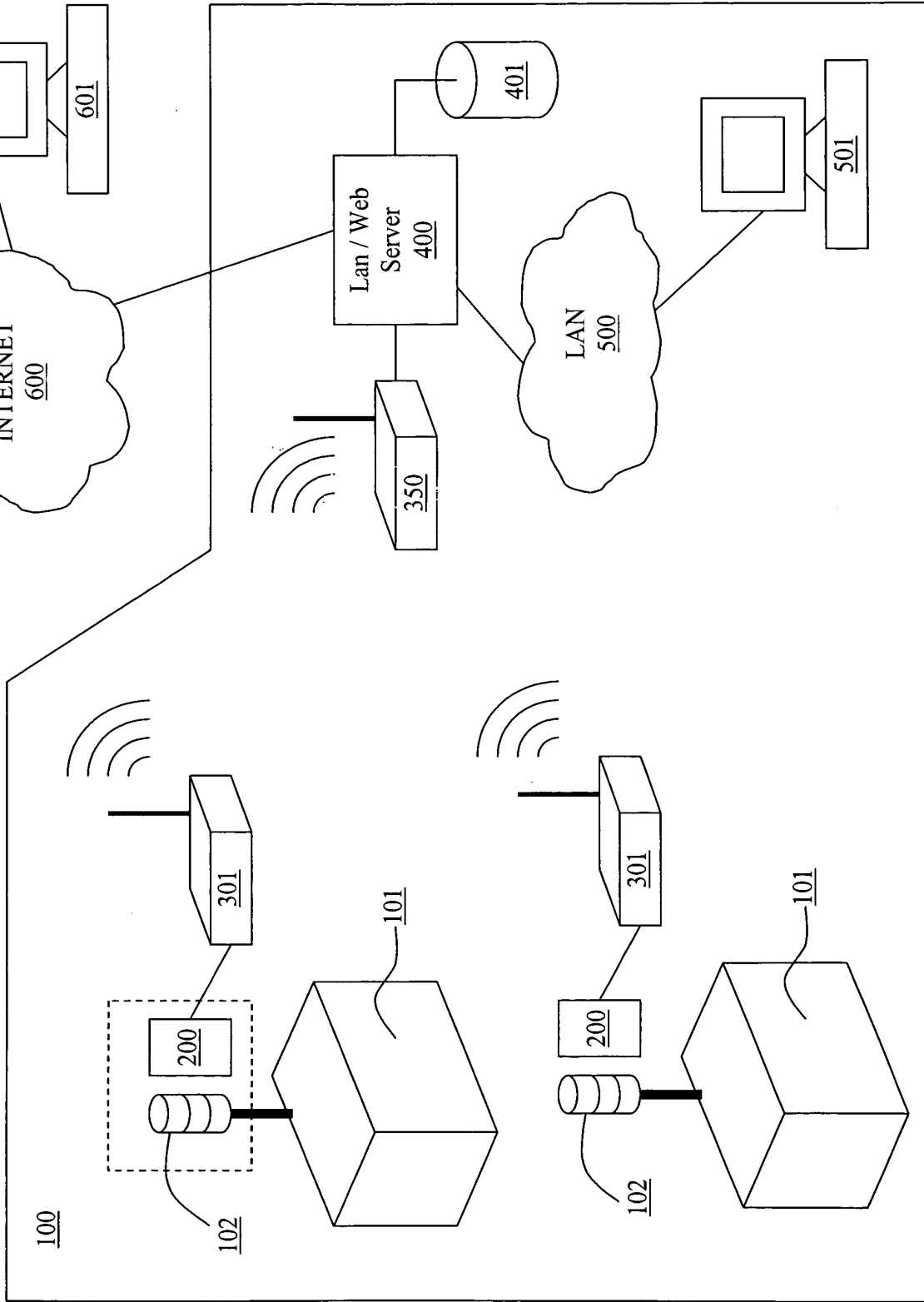


Fig. 1

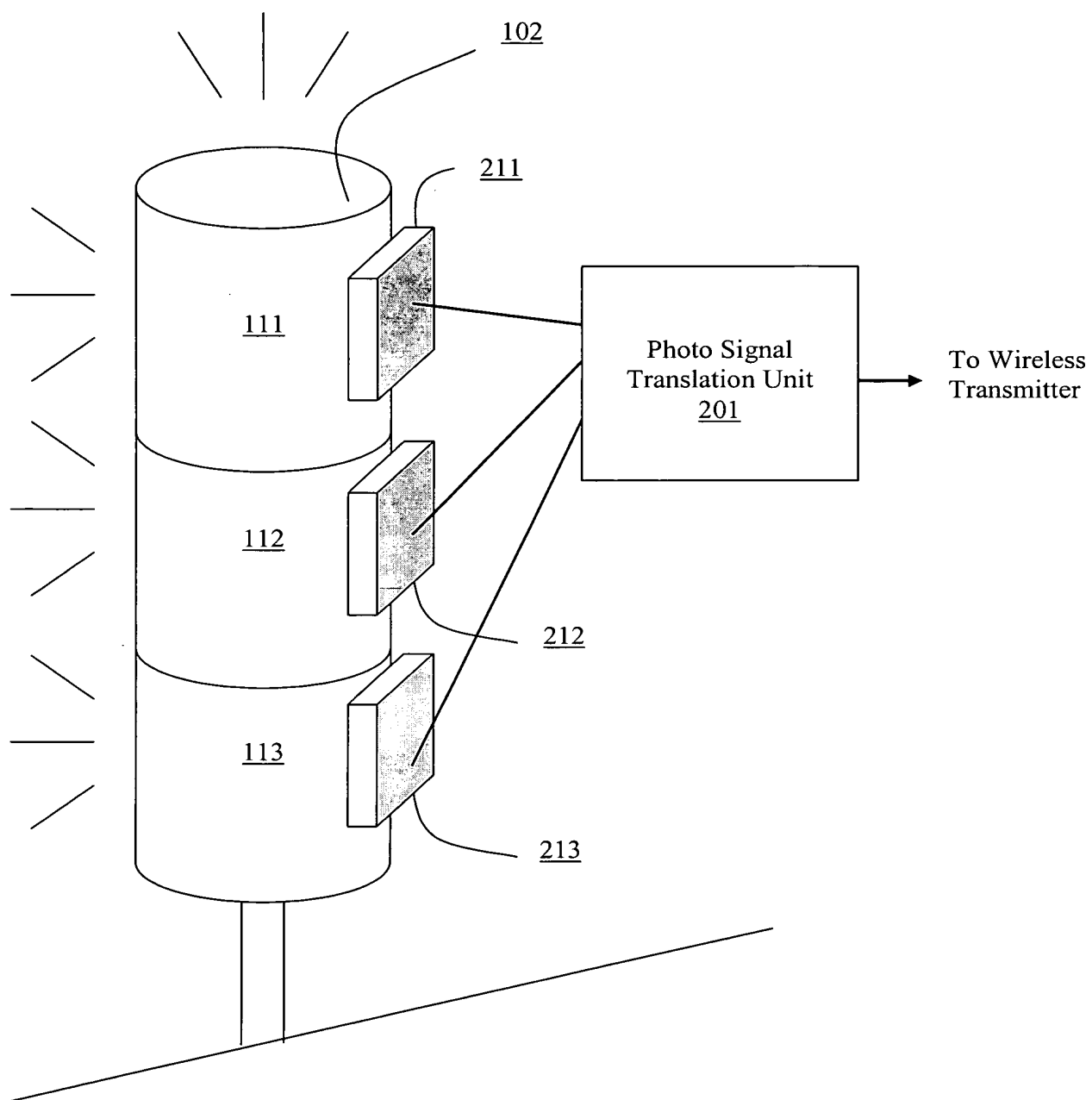


Fig . 2

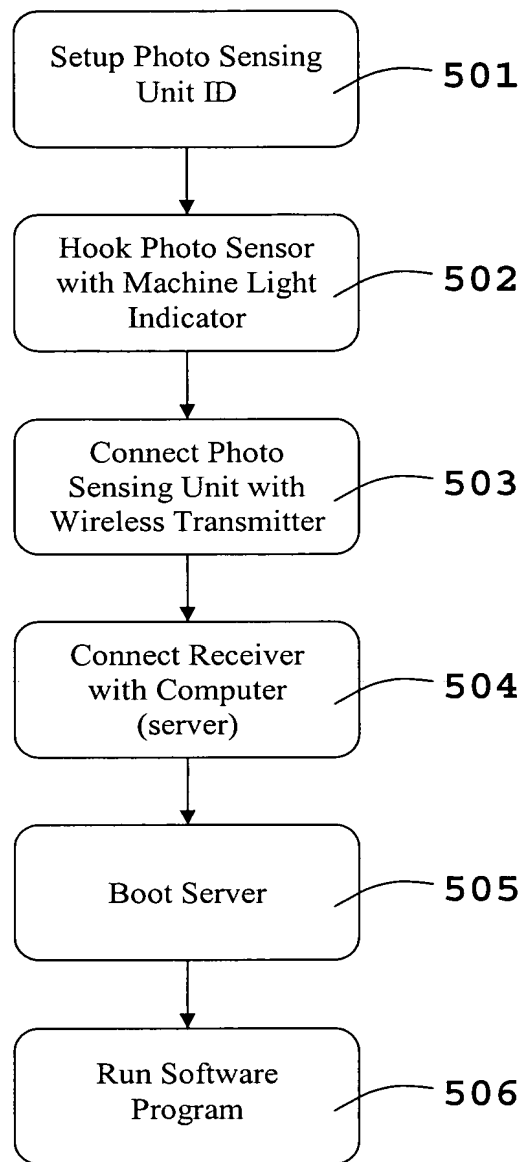


Fig. 3

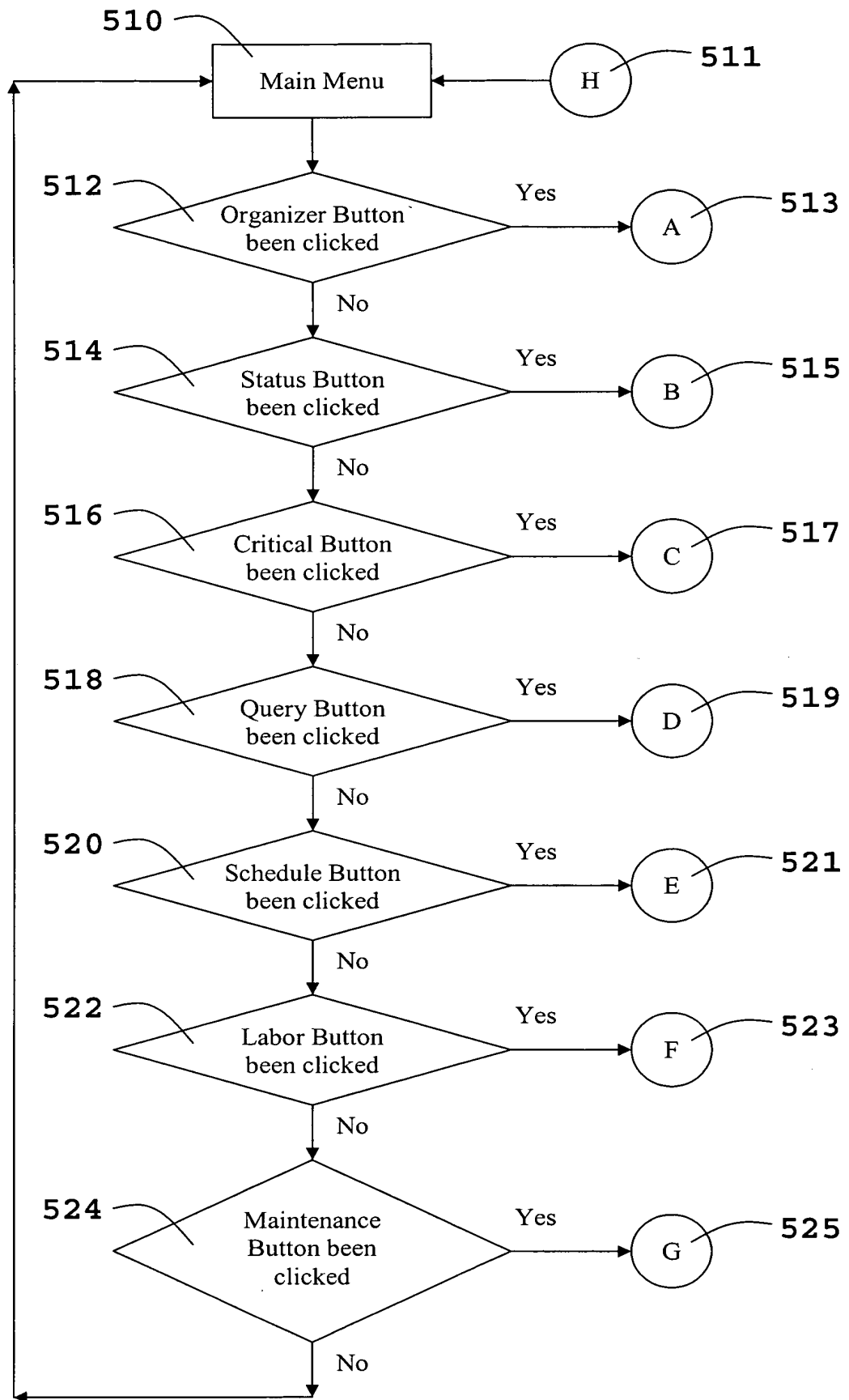


Fig. 4

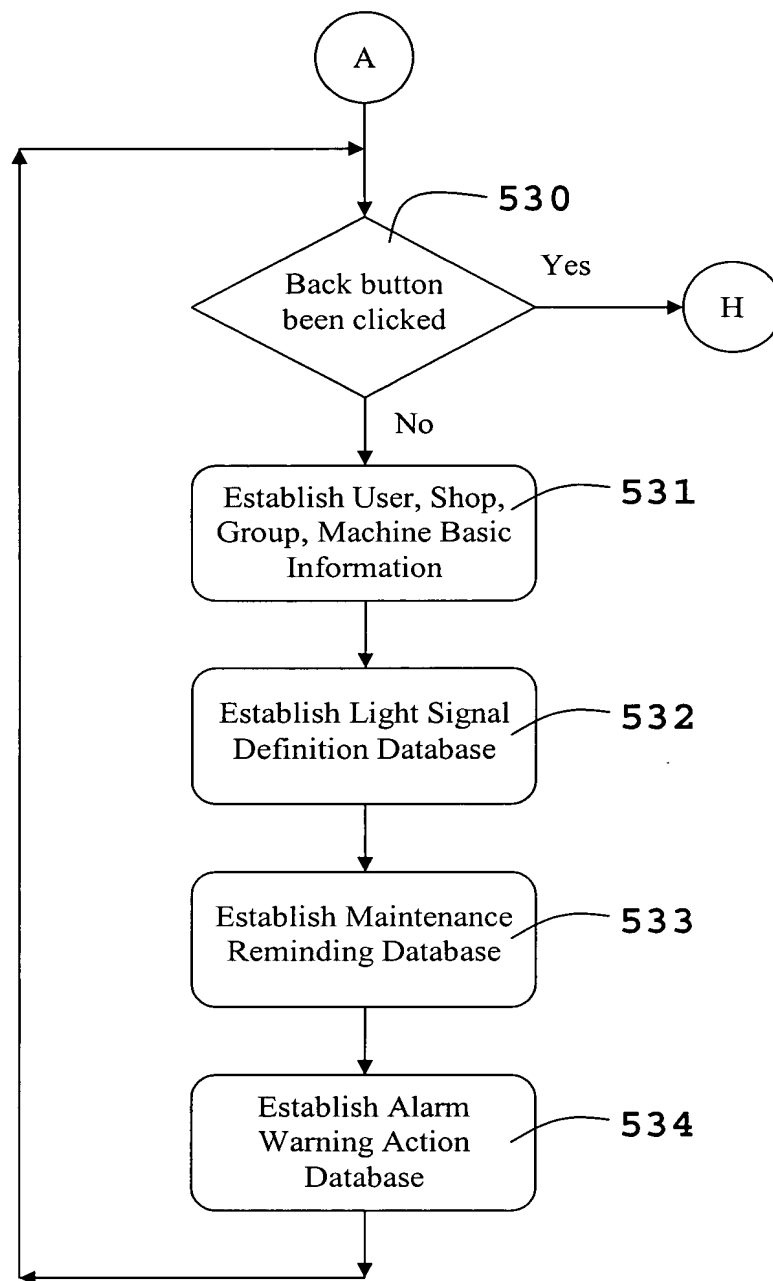


Fig. 5

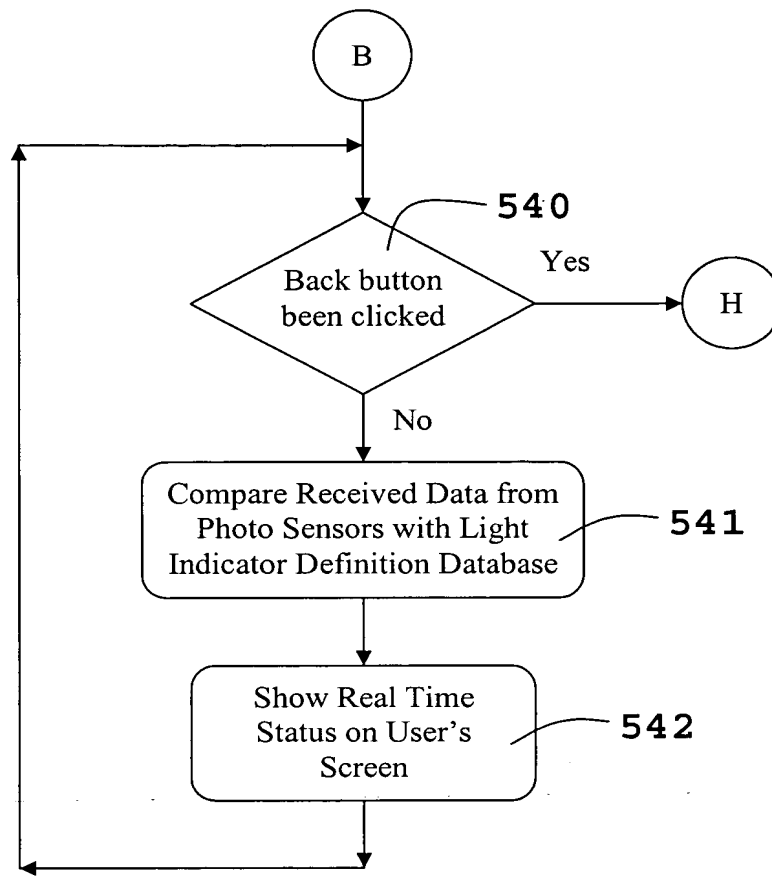


Fig. 6

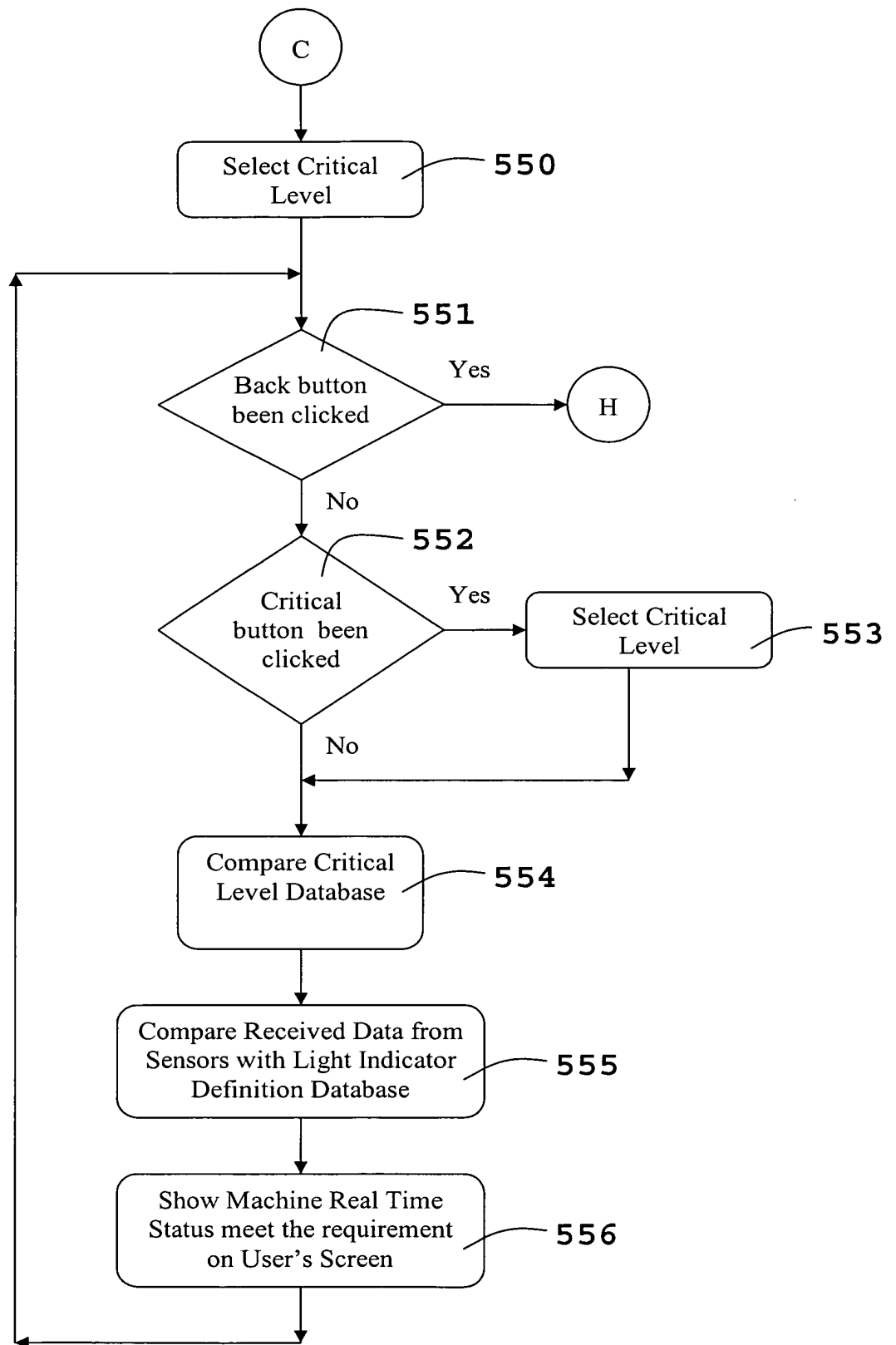


Fig. 7

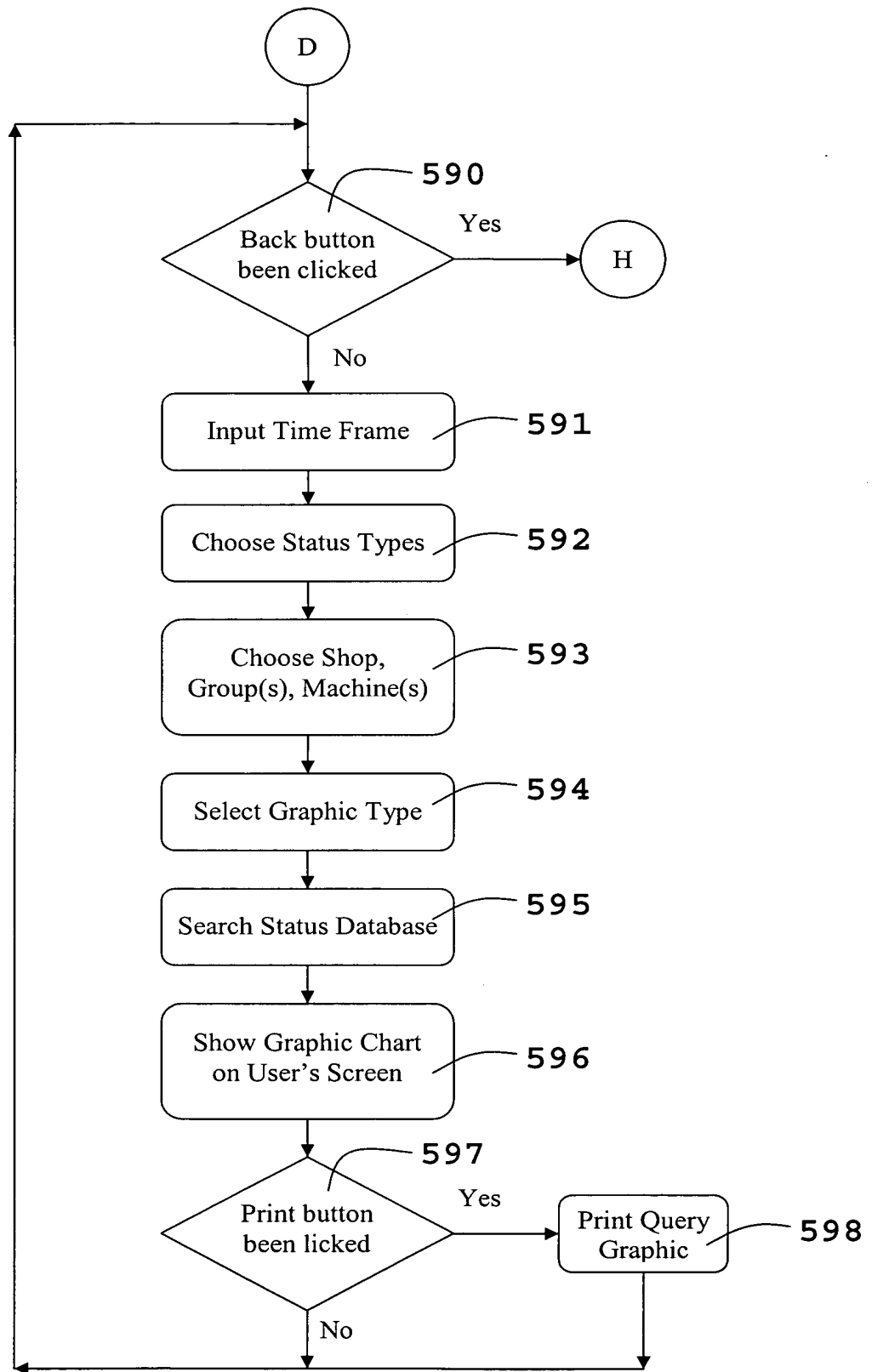


Fig. 8

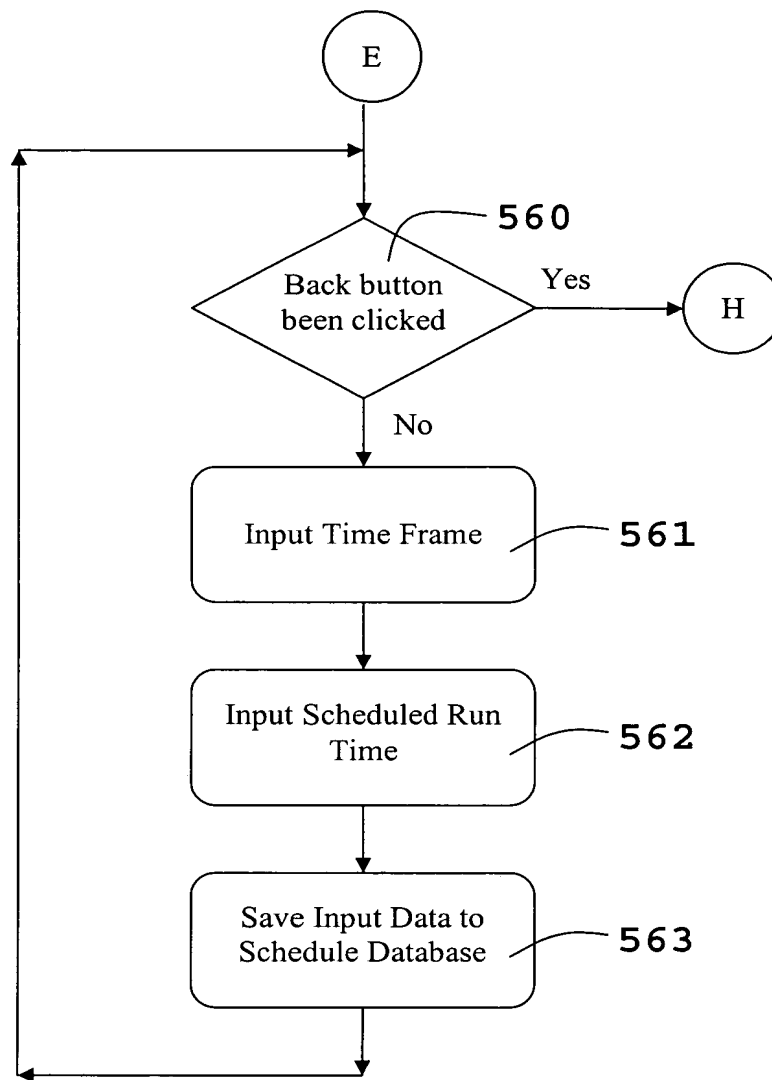


Fig. 9

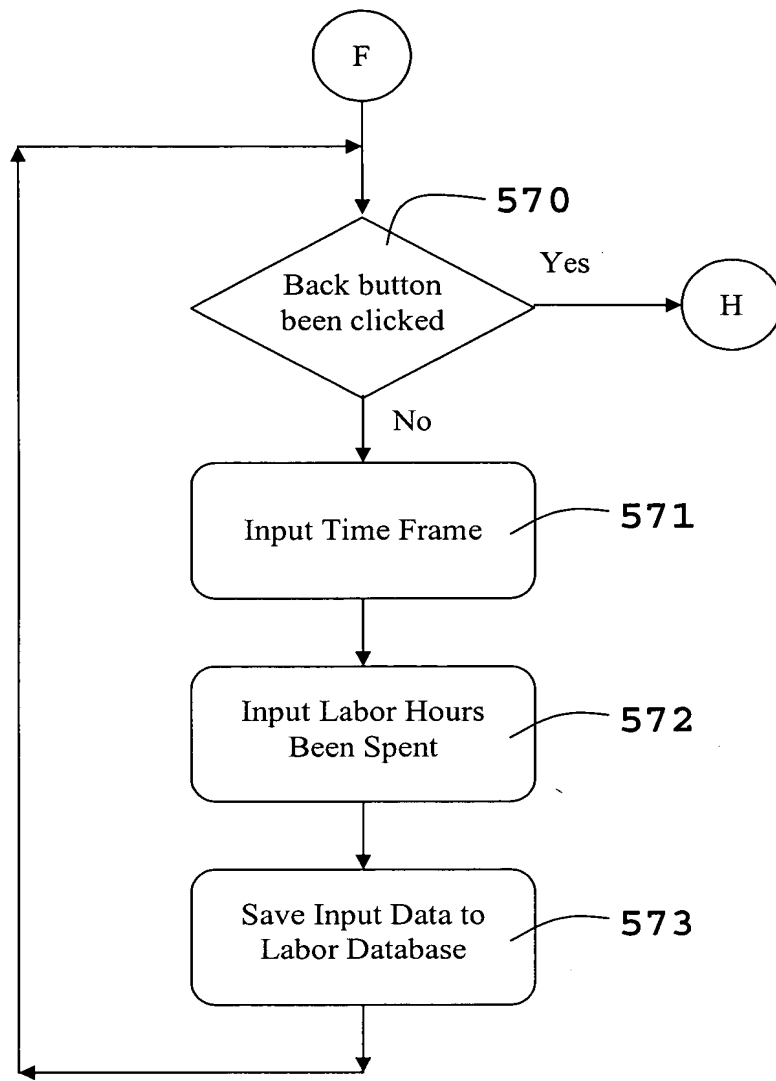


Fig. 10

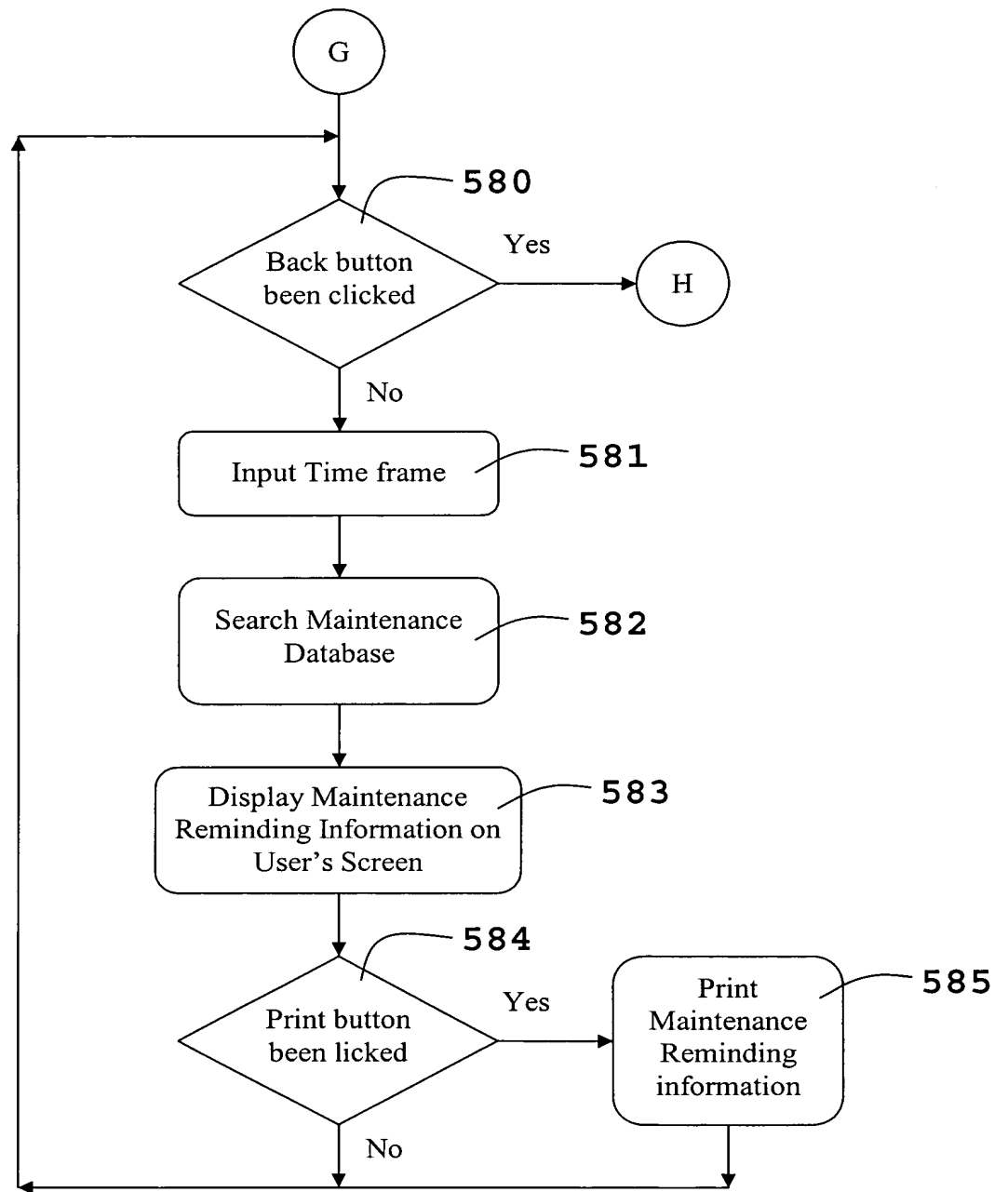


Fig. 11

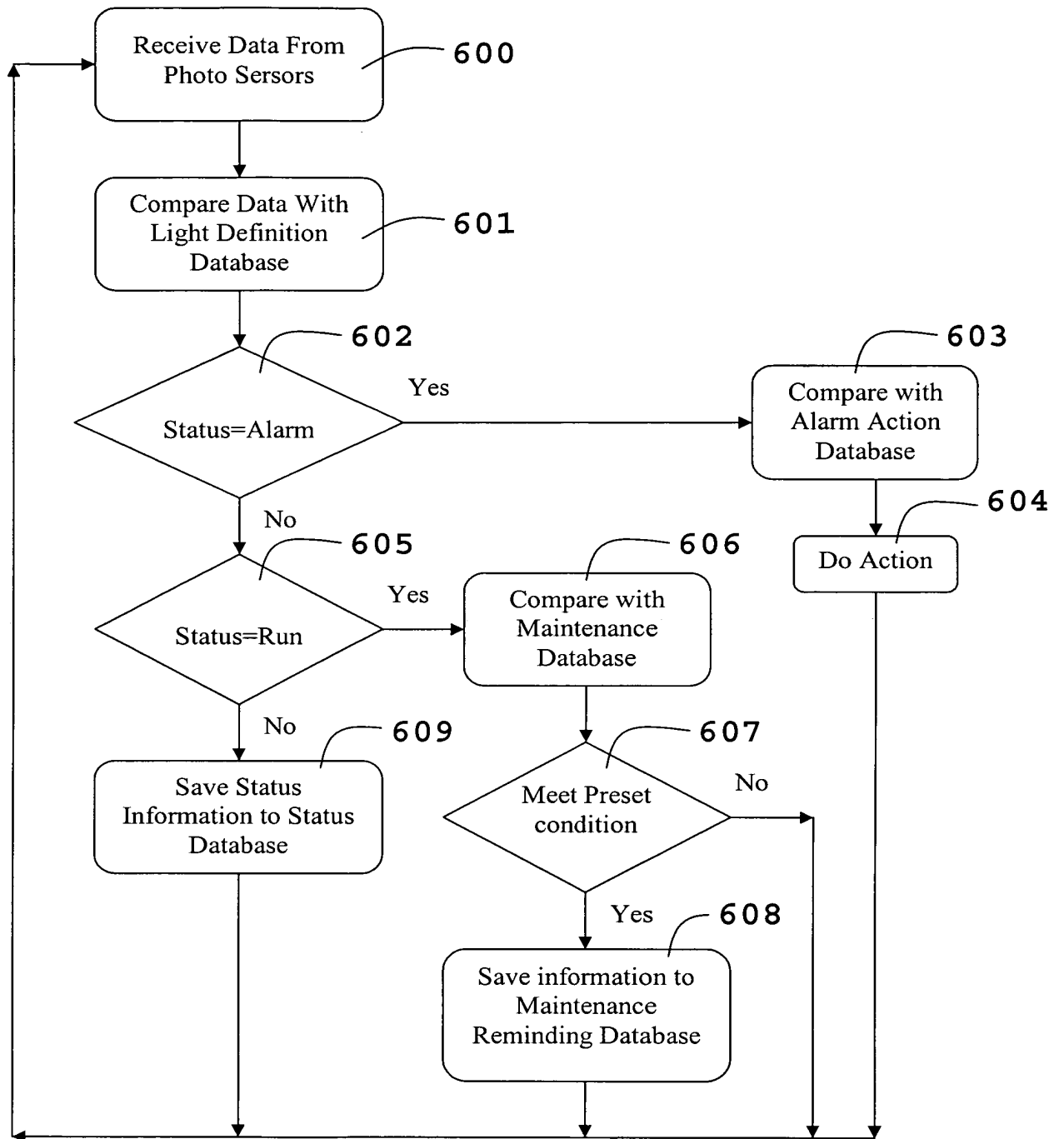


Fig. 12

Machine ID	Machine 110
Machine Name	Toshiba 6342-2
Transmitter/ sensor ID	002
Brand	Toshiba
Model No.	TFA- 6342
Critical Level	3
Group	Group100
Manager	John Peterson
Supervisor	Bob Dean
Operator	Dennis Atirega
Location	F10
Monitoring	<input checked="" type="checkbox"/> Enable <input type="checkbox"/> Disable
	<div>Signal Definition</div>
	<div>Maintenance Items</div>
	<div>Alarm Warning</div>
<div>OK</div> <div>Cancel</div>	

Fig. 13

Machine110 Toshiba 6342-2				Signal Definition			
Status				Lights Indicators			
Run	Idle	Alarm	PWdown	Green	Yellow	Red	Power
●	○	○	○	●	○	○	●
●	○	○	○	●	●	○	●
○	●	○	○	○	●	○	●
○	○	●	○	○	○	●	●
○	○	○	●	○	○	○	○
</							

Machine 110 Toshiba 6342-2 Maintenance Item			
<div> <div>Edit</div> <div>Delete</div> <div>New</div> <div>Back</div> </div>			
Maintenance Item	Description	Run Hours	Cycle Days
Coolant change	16 Gals	120	180
oil change	XYZ Table	280	400

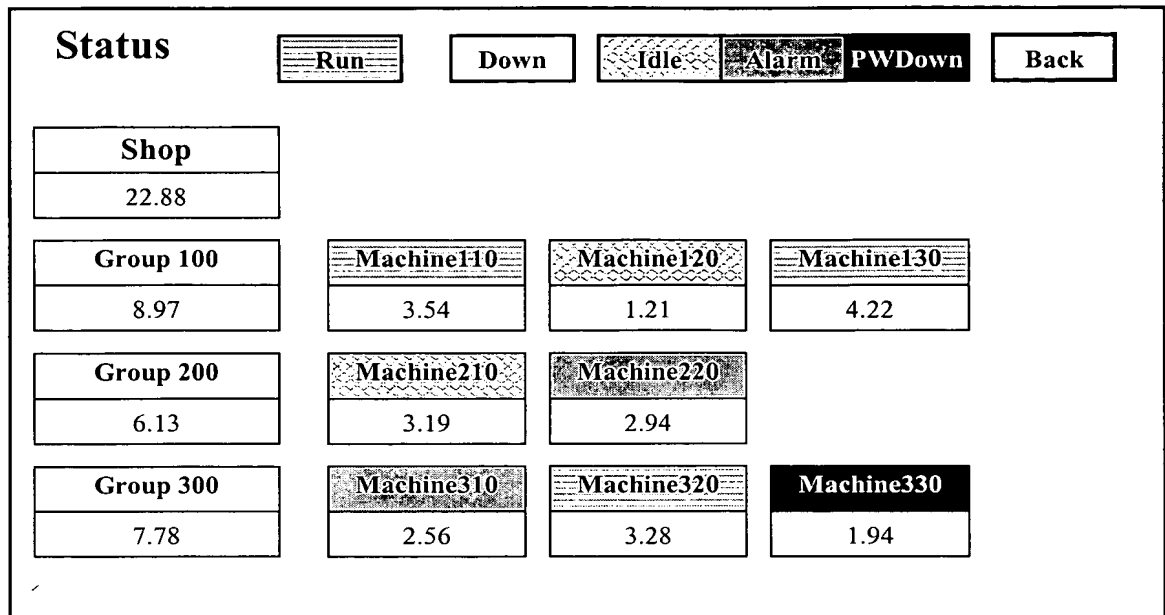
- i. The first line of data means the machine110 needs to do the coolant change(16 Gallons) every 120 run hours or every 180 days.
- ii. The second line of data means the machine110 needs to do the oil change(XYZ table) every 280 hours or every 400 days.

Fig. 15

Machine 110 Toshiba 6342-2 Alarm Warning	
<input type="checkbox"/> Disable	
<input checked="" type="checkbox"/> Blinking	After <u> 5 </u> minutes
<input checked="" type="checkbox"/> Beep	After <u> 10 </u> minutes
<input checked="" type="checkbox"/> E-mail	After <u> 18 </u> minutes Message: <u>Machine110 gets Alarm</u> Address1: <u>djohnson@hotmail.com</u> Address2: <u>tthomason@yahoo.com</u> Address3:
<input checked="" type="checkbox"/> Page	After <u> 20 </u> minutes Message: " <u>Machine110 Alarm</u> " Pager No.1: <u>818-318-3558</u> Pager No.2 Pager No.3
<input checked="" type="checkbox"/> Call	After <u> 30 </u> minutes Voice File Name: <u>c:\ms\m110.voc</u> Tel No.1: <u>818-417-4875</u> Tel No.2 Tel No.3
<div style="text-align: right;"> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </div>	

- i. The icon of machine110 on user's screen will blink after the machine starts alarming for **5** minutes.
- ii. The user's buzzer will beep after the machine starts alarming for 10 minutes.
- iii. The server will send e-mail to djohnson@hotmail.com and tthomason@yahoo.com after the machine starts alarming for **18** minutes.
- iv. The server will page 818-318-3558 after the machine starts alarming for 20 minutes.
- v. The server will send a voice message to 818-417-4875 after the machine starts alarming for **30** minutes.

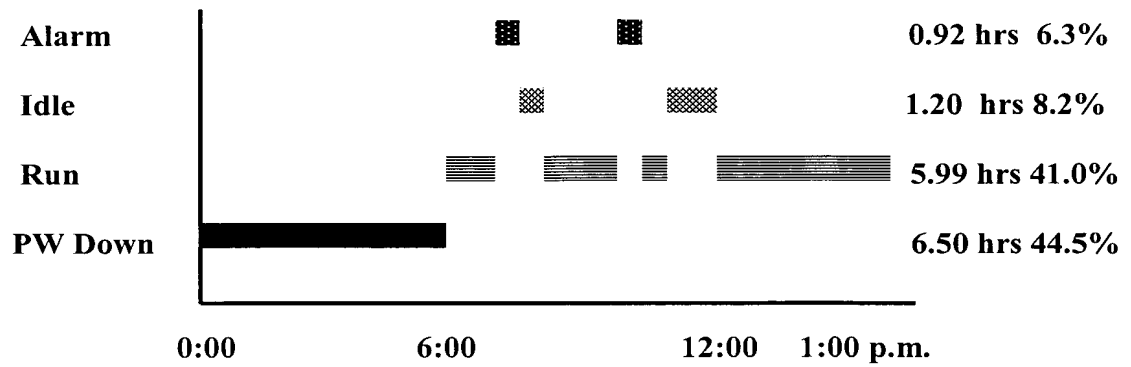
Fig. 16



- i. The machines with green background means running, with yellow means idle, with red means alarming, or with blue color means power down.
- ii. The number below the shop or each group or machine represents the accumulated hours of the present day's run, down, idle, alarm or power down status depending on which button has been clicked.

Fig. 17

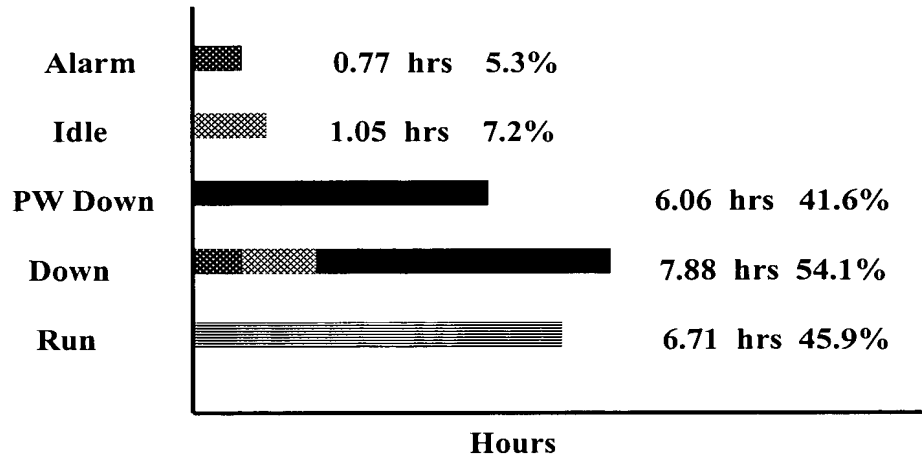
Machine 120 05/25/2003 2:36 p.m.



- i. The graphic shows the process of detail status for the present day -- 5/25/2003 from 0:00 a.m. to the present time(2:36 p.m.)
- ii. The right side numbers of the graphic are the accumulated hours for each status and percentage from 0:00 a.m. to 2:36 p.m.

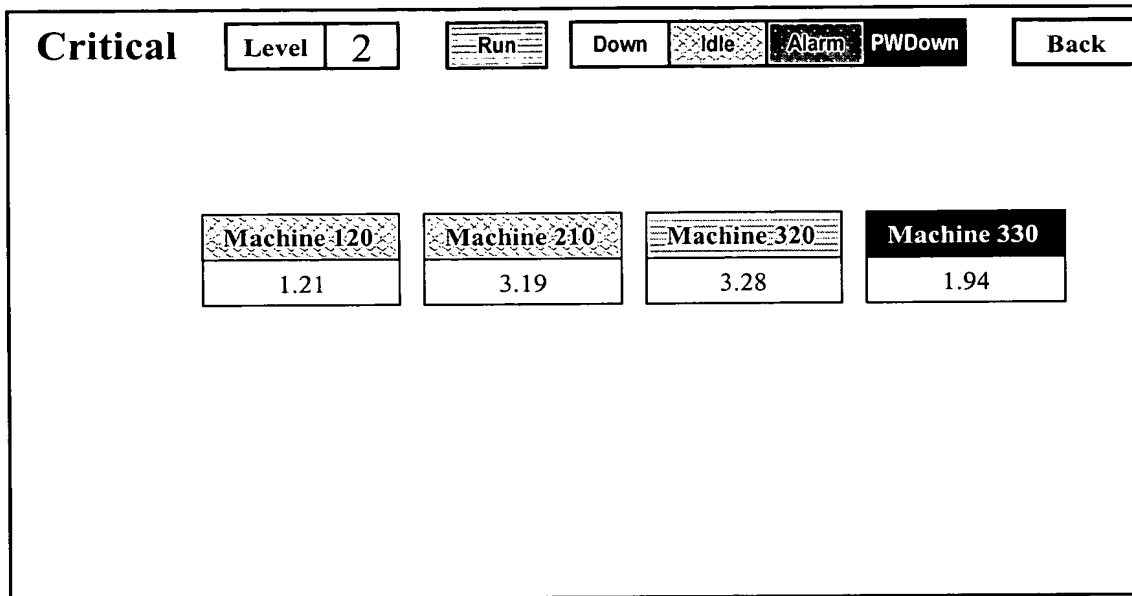
Fig. 18

Group 200 5/25/2003 2:36 p.m.



- i. The graphic shows the accumulated machine status hours in this group for the present day -- 5/25/2003 from 0:00 a.m. to the present time(2:36 p.m.)
- ii. The right side numbers of the graphic are the accumulated machine status hours in this group for each status and percentage from 0:00 a.m. to 2:36 p.m.

Fig. 19



- i. The critical level can be preset in each machine's property. (Please reference Fig1-1)
- ii. For example, the critical level setting of
 - Machine 110, Machine 130, and Machine 220 are 1
 - Machine 310 is 4
 - Machine 120, Machine 210, Machine 320, and Machine330 are 2
- iii. The screen will show all the machine status icon when the exact critical level was chosen.

Fig. 20

Query	Day	Week	Month	Bar	Line	Pie	Run	Down	Idle	Alarm	PW ↓
							Schedule		Labor		
	From: mm/dd/yyyy To: mm/dd/yyyy										

Shop				Reset	GO	Back

Group 100	Machine 110	Machine 120	Machine 130

Group 200	Machine 210	Machine 220	

Group 300	Machine 310	Machine 320	Machine 330

The various graphic query can be made according to the following options:

- Time (Day, Week, Month, or a period of time)
- Status (Run, Down, Idle, Alarm, Power Down, Run time with Run Schedule, or Run time with Labor hours)
- Machines(or Groups, Shop)
- Graphic type (Bar, Line, or Pie chart)

Fig. 21

Query

Day

Week

Month

Bar

Line

Pie

Run

Down

Idle

Alarm

PW ↓

Schedule

Labor

From: 05/10/2003 To: 05/10/2003

Shop

Reset

GO

Back

Group 100	Machine 110	Machine 120	Machine 130
Group 200	Machine 210	Machine 220	
Group 300	Machine 310	Machine 320	Machine 330

Fig. 22

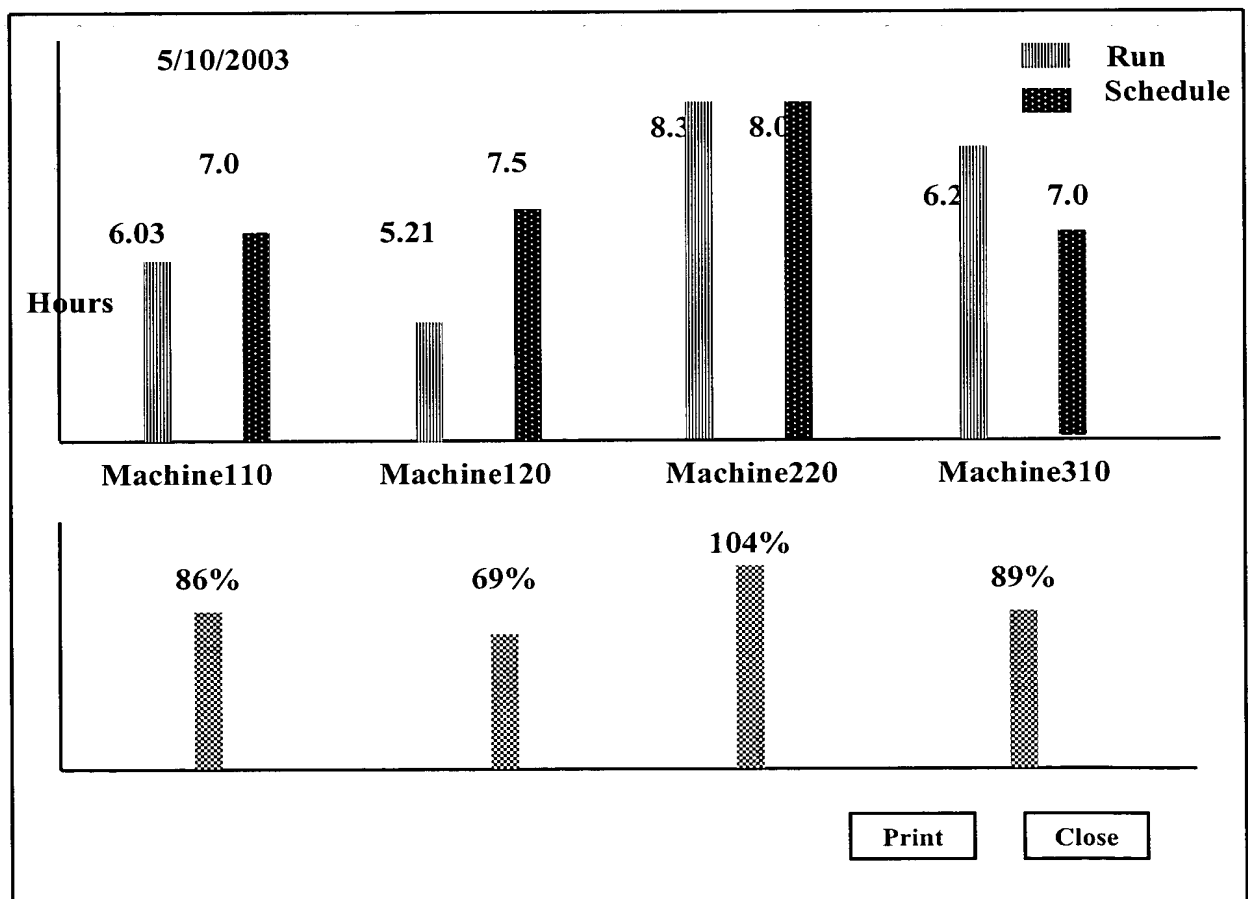


Fig. 23

Query

Day

Week

Month

Bar

Line

Pie

Run

Down

Idle

Alarm

PW ↓

Schedule

Labor

Reset

GO

Back

From: 5/4/2003 To: 6/7/2003

Shop

Group 100

Group 200

Group 300

Machine 110

Machine 210

Machine 310

Machine 120

Machine 220

Machine 320

Machine 130

Machine 330

Fig. 24

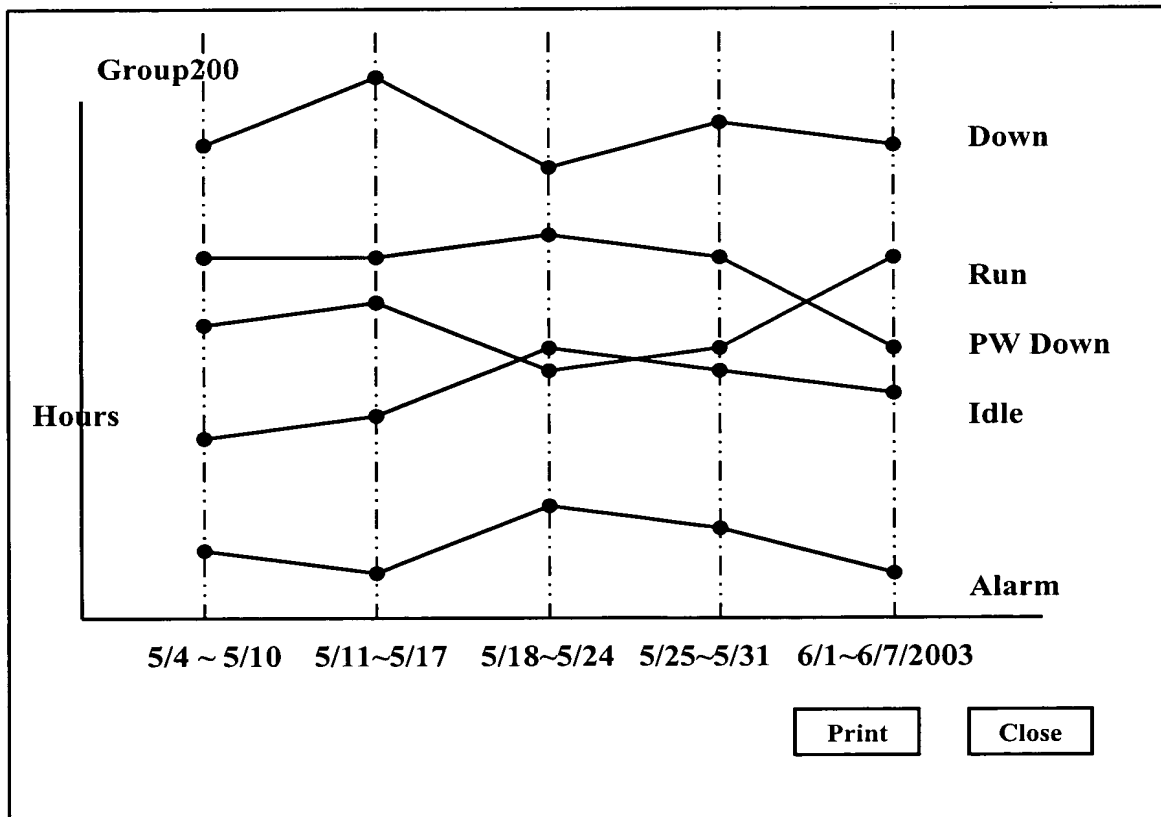


Fig. 25

Schedule

Day

Week

Month

Clear

Cancel

OK

Back

From:mm/dd/yyyy To: mm/dd/yyyy

M & P Shop

Group 100

Group 200

Group 300

Machine110

Machine210

Machine310

Machine120

Machine220

Machine320

Machine130

Machine330

Fig. 26

Labor	<input type="button" value="Day"/>	<input type="button" value="Week"/>	<input type="button" value="Month"/>	<input type="button" value="Clear"/>	<input type="button" value="Cancel"/>	<input type="button" value="OK"/>	<input type="button" value="Back"/>																
From:mm/dd/yyyy To: mm/dd/yyyy																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="8" style="text-align: center;">M & P Shop</td> </tr> <tr> <td colspan="8" style="height: 20px;"></td> </tr> </table>								M & P Shop															
M & P Shop																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">Group 100</td> <td style="width: 25%; text-align: center;">Machine110</td> <td style="width: 25%; text-align: center;">Machine120</td> <td style="width: 25%; text-align: center;">Machine130</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>								Group 100	Machine110	Machine120	Machine130												
Group 100	Machine110	Machine120	Machine130																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">Group 200</td> <td style="width: 25%; text-align: center;">Machine210</td> <td style="width: 25%; text-align: center;">Machine220</td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td></td> </tr> </table>								Group 200	Machine210	Machine220													
Group 200	Machine210	Machine220																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">Group 300</td> <td style="width: 25%; text-align: center;">Machine310</td> <td style="width: 25%; text-align: center;">Machine320</td> <td style="width: 25%; text-align: center;">Machine330</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>								Group 300	Machine310	Machine320	Machine330												
Group 300	Machine310	Machine320	Machine330																				

Fig. 27

Maintenance From: 05/12/2003 To: 05/19/2003

Print

Back

Date	Machine ID	Machine Name	Maintenance Item	M.Cycle
05/12/03	Machine 120	Toshiba 5xgt	Oil Change	500 Hours
05/13/03	Machine 210	Hitachi brizer 3x	Coolant Change	200 Hours
05/13/03	Machine 330	Mazak sprinder GL	Coolant Change	30 Days

Fig. 28